

□ Prodn. of filter membrane - by etching highly pure aluminium foil and smoothing surface.

L20 ANSWER 108 OF 121 WPINDEX COPYRIGHT 2002 DERWENT INFORMATION LTD
AN 1989-352100 [48] WPINDEX
DNC C1989-156109
DC J01 M11
PA (SHOA) SHOWA ALUMINIUM CO LTD
CYC 1
PI JP 01262903 A 19891019 (198948)* 4p
JP 07112532 B2 19951206 (199602) 4p
ADT JP 01262903 A JP 1988-90497 19880413; JP 07112532 B2 JP 1988-90497
19880413
FDT JP 07112532 B2 Based on JP 01262903
PRAI JP 1988-90497 19880413
AN 1989-352100 [48] WPINDEX
AB JP 01262903 A UPAB: 19930923

The method is characterised by etching of highly pure aluminium foil, having at least 99.9% purity; and smoothing of the etching foil surface.

The smoothing treatment comprises pref. an electropolishing or chemical polishing. The smoothing treatment produces surface roughness of up to 5.0 microns Rmax and up to 2 microns Ra at 0.25 mm standard length in the curve of surface roughness of the treated aluminium membrane by JIS.B0601 method. The filter membrane is coated further with a gas sepn. membrane. USE/ADVANTAGE - The filter **membrane** is used for **cleaning**, purifying or sepn. of **gas** or **liq.** in the **mixt.**

In an example a sintered aluminium foil, comprising 99.9% aluminium and having 0.1 mm thickness, was treated by an electrolytic etching under the following conditions: electrolytic liq. being 5 wt.% HCl, temp. of the liq. 70 deg.C and electrolytic condition being DC, 15 A/dm² x 100 sec.. The given etching foil was made by an electropolishing as for a surface smoothness treatment: liq. compsn. H2O2: methanol = 1:4, liq. temp. being 5 deg.C and electrolytic condition being 100 V x 5 min..
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